EXPERT
ANNUAL INDEX VOLUME 10 1995

Articles

AI in Japan

"A Pilot System for Plant Control Using Model-Based Reasoning," Naomichi Sueda and Mikito Iwamasa, No. 4, Aug., pp. 24–31.

"Fuzzy and Neural Hybrid Expert Systems: Synergetic AI," Motohisa Funabashi, Akira Maeda, Yasuo Morooka, and Kiyomi Mori, No. 4, Aug., pp. 32–41.

"Guest Editors' Introduction: Expert Systems Research in Japan," Riichiro Mizoguchi and Hiroshi Motoda, No. 4, Aug., pp. 14–23.

"Hybridizing a Genetic Algorithm with Rule-Based Reasoning for Production Planning," Kazuro Hamada, Toshimitsu Baba, Ken'ichi Sato, and Masanao Yufu, No. 5, Oct., pp. 60–67.

"Reusing Makes It Easier: Manufacturing Process Design by CBR with KnowledgeWare," Masaaki Takahashi, Junichi Oono, Kazuyuki Saitoh, Shunji Matsumoto, No. 6, Dec., pp. 74–80.

ARPA-Rome Planning Initiative

"Demonstrating the Operational Feasibility of New Technologies: The ARPI IFDs," Marie Bienkowski, No. 1, Feb., pp. 27–33.

"Developing New Technologies for the ARPA-Rome Planning Initiative," Jonathan Stillman and Piero Bonissone, No. 1, Feb., pp. 10–16.

"Guest Editors' Introduction: The ARPA-Rome Knowledge-Based Planning and Scheduling Initiative," Northrup Fowler III, Stephen E. Cross, and Chris Owens, No. 1, Feb., pp. 4–9.

"The Common Prototyping Environment: A Framework for Software Technology Integration, Evaluation, and Transition," Mark H. Burstein, Richard Schantz, Marie A. Bienkowski, Marie E. desJardins, and Stephen Smith, No. 1, Feb., pp. 17–26.

"User-Centric Software Engineering," Michael DeBellis and Christine Haapala, No. 1, Feb., pp. 34–41.

Cooperative Systems

"A Blackboard-Based Cooperative System for Schema Integration," Sudha Ram and Venkataraman Ramesh, No. 3, June, pp. 56–62.

"An Open Framework for Cooperative Problem Solving," Mauro Gaspari, Enrico Motta, and Arthur Stutt, No. 3, June, pp. 48–55.

"From Office Automation to Intelligent Workflow Systems," Dirk E. Mahling, Noel Craven, and W. Bruce Croft, No. 3, June, pp. 41–47.

"Guest Editors' Introduction: Cooperative Systems for Workgroups," Georg Klinker, Marc Linster, and Gregg Yost, No. 3, June, pp. 39–40.

"Toward Cooperative Advice-Giving Systems: A Case Study in Knowledge-Based Decision Support," Göran Forslund, No. 4, Aug., pp. 56–62.

Environmental Applications of AI

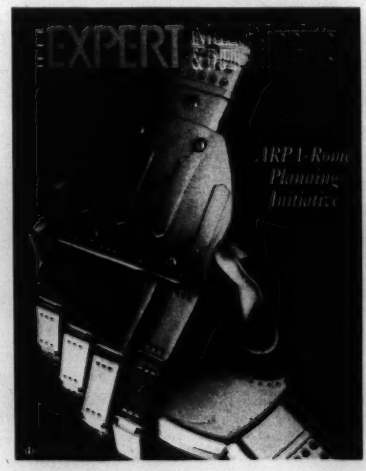
"An Intelligent Assistant for Nuclear Test Ban Treaty Verification," Cindy L. Mason, No. 6, Dec., pp. 42–49.

"Guest Editors' Introduction: Environmental Applications of AI," Cindy Mason and Stan Matwin, No. 6, Dec., pp. 12–13.

"Intelligent Retrieval of Archived Meteorological Data," Eric K. Jones and Aaron Roydhouse, No. 6, Dec., pp. 50–58.

"Machine Learning and Planning for Data Management in Forestry," Stan Matwin, Daniel Charlebois, David G. Goodenough, and Pal Bhogal, No. 6, Dec., pp. 35–41.

"Mission to Planet Earth: AI Views the World," Nicholas M. Short, Robert F. Cromp, William J. Campbell, James C. Tilton, Jacqueline J. LeMoigne, Gyorgy Fekete, Nathan S. Netanyahu, Walter B. Ligon III, and Keith Wichmann, No. 6, Dec., pp. 24–34.



"Undersea Exploration in Antarctica Using a Robotic Submarine with Telepresence User Interface," Carol R. Stoker, Donald R. Barch, Butler P. Hine III, and James Barry, No. 6, Dec., pp. 14–23.

Evolutionary Processing

"Alternative Neural Network Training Methods," Vincent W. Porto, David B. Fogel, and Lawrence J. Fogel, No. 3, June, pp. 16–22.

"Evolving Neural Control Systems," N. Saravanan and David B. Fogel, No. 3, June, pp. 23–27.

"Generating Pattern-Recognition Systems Using Evolutionary Learning," Louis A. Tamburino, Mateen M. Rizki, and Michael A. Zmuda, No. 4, Aug., pp. 63–71.

"Guest Editor's Introduction: Evolution Revolution," Peter J. Angeline, No. 3, June, pp. 6–10.

"Inducing Logic Programs with Genetic Algorithms: The Genetic Logic Programming System," Man Leung Wong and Kwong Sak Leung, No. 5, Oct., pp. 68–76.

"Mining the Genetic Program," Walter Alden Tackett, No. 3, June pp. 28–38.

"The GA-P: A Genetic Algorithm and Genetic Programming Hybrid," Les M. Howard and Donna J. D'Angelo, No. 3., June, pp. 11–15.

"Using Genetic Algorithms to Design Laminated Composite Structures," William F. Punch, Ronald C. Averill, Erik D. Goodman, Shyh-Ghang Lin, and Ying Ding, No. 1, Feb., pp. 42–49.

Image Understanding

"Applications of Polarization Camera Technology," Lawrence B. Wolff, No. 5, Oct., pp. 30–38.

"Defense Applications of Image Understanding," Oscar Firschein, No. 5, Oct., pp. 11–17.

"Guest Editor's Introduction: The Image Understanding Program at ARPA," Oscar Firschein, No. 5, Oct., pp. 8–10.

"Medical Applications of Image Understanding," W.E.L. Grimson, No. 5, Oct., pp. 18–29.

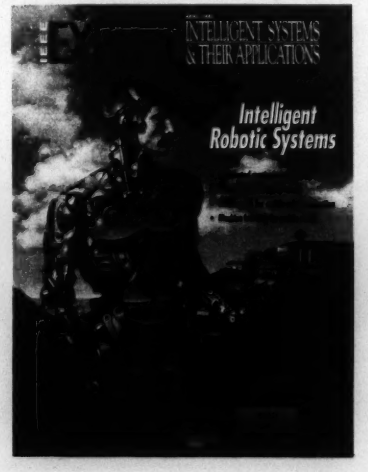
"The Image Understanding Environment Program," Joseph Mundy, No. 6, Dec., pp. 64–73.

Intelligent Internet Services

"AI on the WWW: Supply and Demand Agents," Carol Brown, Les Gasser, Daniel E. O'Leary, and Alan Sangster, No. 4, Aug., pp. 50–55.

"Guest Editor's Introduction," Jay Allen Sears, No. 4, Aug., pp. 42–43.

"IndustryNet: A Model for Commerce on the World Wide Web," Donald H. Jones and D. Navin-Chandra, No. 5, Oct., pp. 54–59.



"Information Discovery in High-Volume, Frequently Changing Data," Kenneth R. Whitebread and Steve Jameson, No. 5, Oct., pp. 51–53.

"Intelligent Agents on the Internet: Fact, Fiction, and Forecast," Oren Etzioni and Daniel S. Weld, No. 4, Aug., pp. 44–49.

"Navigating the Information Superhighway Using Spoken Language Interfaces," Victor W. Zue, No. 5, Oct., pp. 39–43.

"Satellite Image Dissemination via Software Agents," Christopher Toomey and William Mark, No. 5, Oct., pp. 44–50.

"Effective Text Retrieval Based on Combining Evidence from the Corpus and Users," W. Bruce Croft, No. 6, Dec., pp. 59–63.

Intelligent Robot Systems

"Distributed Control Representation for Manipulation Tasks," Roderic A. Grupen, Manfred Huber, Jefferson A. Coelho, Jr., and Kamal Souccar, No. 2, Apr., pp. 9–15.

"Guest Editor's Introduction: Intelligent Robotic Systems," Ronald C. Arkin, No. 2, Apr., pp. 6–8.

"The USC AFV-1: A Behavior-Based Entry in the 1994 International Aerial Robotics Competition," James F. Montgomery, Andrew H. Fagg, and George A. Bekey, No. 2, Apr., pp. 16–23.

"Using a Blackboard to Integrate Multiple Activities and Achieve Strategic Reasoning for Mobile-Robot Navigation," Ramiro Liscano, Reda E. Fayek, Allan Manz, Elizabeth R. Stuck, and Jean-Yves Tigli, No. 2, Apr., pp. 24–36.

"Using Machine Learning Techniques in Real-World Mobile Robots," Michael Kaiser, Volker Klingspor, José del R. Millán, Marco Accame, Frank Walner, and Rüdiger Dillmann, No. 2, Apr., pp. 37–45.

KDD vs. Privacy Minisymposium

"Cautionary Notes for the Automated Processing of Data," Steven Bonorris, No. 2, Apr., pp. 53–54.

"KDD: Public and Private Concerns," Willi Klösgen, No. 2, Apr., pp. 55–57.

"Knowledge Discovery in Personal Data vs. Privacy: A Mini-Symposium," Gregory Piatesky-Shapiro, No. 2, Apr., pp. 46–47.

"Privacy & Knowledge Discovery: A Response to O'Leary," Yew-Tuan Khaw and Hing-Yan Lee, No. 2, Apr., p. 58.

"Response to O'Leary," Wojciech Ziarko, No. 2, Apr., p. 59.

"Some Privacy Issues in Knowledge Discovery: The OECD Personal Privacy Guidelines," Daniel E. O'Leary, No. 2, Apr., pp. 48–52.

Special Features

"On the History of AI Applications I: *IEEE Expert*—The First Nine Years," Daniel E. O'Leary, No. 1, Feb., pp. 57–60.

"On the History of AI Applications II: IEE Conference on AI Applications," Daniel E. O'Leary, No. 1, Feb., pp. 61–65.

"Using DRE to Augment Generic Conceptual Design," Johan Vanwelkenhuysen, No. 1, Feb., pp. 50–56.

Authors

Accame, Marco. *See* Michael Kaiser.

Angeline, Peter J., "Guest Editor's Introduction: Evolution Revolution," No. 3, June, pp. 6–10.

Arkin, Ronald C., "Guest Editor's Introduction: Intelligent Robotic Systems," No. 2, Apr., pp. 6–8.

Baba, Toshimitsu. *See* Kazuro Hamada.

Barch, Donald R. *See* Carol R. Stoker.

Barry, James. *See* Carol R. Stoker.

Bekey, George A. *See* James F. Montgomery.

Bhogal, Pal. *See* Stan Matwin.

Bienkowski, Marie A. *See* Mark Burstein.

Bienkowski, Marie, "Demonstrating the Operational Feasibility of New Technologies: The ARPI IFDs," No. 1, Feb., pp. 27–33.

Bonissone, Piero. *See* Jonathan Stillman.

Bonorris, Steven, "Cautionary Notes for the Automated Processing of Data," No. 2, Apr., pp. 53–54.

Brown, Carol, Les Gasser, Daniel E. O'Leary, and Alan Sangster, "AI on the WWW: Supply and Demand Agents," No. 4, Aug., pp. 50–55.

Burstein, Mark H., Richard Schantz, Marie A. Bienkowski, Marie E. desJardins, and Stephen Smith, "The Common Prototyping Environment: A Framework for Software Technology Integration, Evaluation, and Transition," No. 1, Feb., pp. 17–26.

Callahan, John R., "Using Technology to Enable Collaboration: Wet Ice '95," John R. Callahan, No. 4, Aug., p. 75.

Campbell, William J. *See* Nicholas M. Short, Jr.

Canali, Luigi, "Predict by NeuralWare: An Automated Tool for Building Neural Networks," No. 3, June, pp. 63–64.

Cao, Cungen, "AI Developments in China," No. 5, Oct., pp. 6–7

Charlebois, Daniel. *See* Stan Matwin.

Charles, John, "US Lead Narrowing in AI," No. 1, Feb., pp. 70–72.

"Lunar Rover Initiative," No. 6, Dec., pp. 5–6.

Coelho, Jr., Jefferson A. *See* Roderic A. Grupen.

Collins, Garrett, "1994 Loebner Prize Awarded," No. 1, Feb., p. 67.

Craven, Noel. *See* Dirk E. Mahling.

Croft, W. Bruce, "Effective Text Retrieval Based on Combining Evidence from the Corpus and Users," No. 6, Dec., pp. 59–63. *Also see* Dirk E. Mahling.

Cromp, Robert F. *See* Nicholas M. Short.

Cross, Stephen E. "Board's Focus Enhanced," No. 3, June, p. 2.

"Interview with Edward A. Feigenbaum," No. 6, Dec., pp. 8–11.

"My Vision for *IEEE Expert,* No. 1, Feb., pp. 2–3.

"New Developments Continue," No. 4, Aug., pp. 2–5

"The Rest of Our Name: Intelligent Systems and Their Applications," No. 6, Dec., pp. 2–3.

"We Need Your Expert Opinion," No. 5, Oct., pp. 2–4.

"7,110?" No. 2, Apr., pp. 2–3.

See Northrup Fowler III.

D'Angelo, Donna J. *See* Les M. Howard.

Davis, Ernest, *The Uncertain Reasoner's Companion: A Mathematical Perspective,* (J.B. Paris, Cambridge University Press, New York), No. 5, Oct., pp. 78–79.

Dean, Thomas, *Intelligent Scheduling,* (Monte Zweben and Mark S. Fox, eds., Morgan Kaufmann, San Francisco, 1994), No. 1, Feb., pp. 76–77.

DeBellis, Michael, and Christine Haapala, "User-Centric Software Engineering," No. 1, Feb., pp. 34–41.

desJardins, Marie E. *See* Mark Burstein.

Dillmann, Rüdiger. *See* Michael Kaiser.

Ding, Ying. *See* William F. Punch.

Etzioni, Oren, and Daniel S. Weld, "Intelligent Agents on the Internet: Fact, Fiction, and Forecast," No. 4, Aug., pp. 44–49.

Fagg, Andrew H. *See* James F. Montgomery.

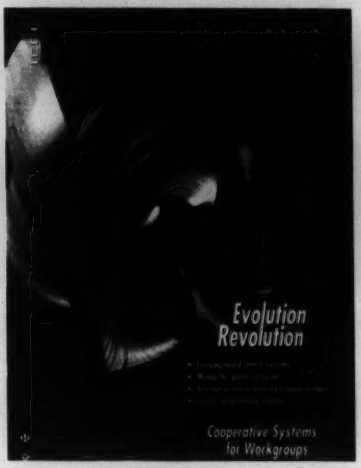
Fayek, Reda E. *See* Ramiro Liscano.

Fekete, Gyorgy. *See* Nicholas M. Short.

Firschein, Oscar, "Defense Applications of Image Understanding," No. 5, Oct., pp. 11–17.

"Guest Editor's Introduction: The Image Understanding Program at ARPA," No. 5, Oct., pp. 8–10.

Fogel, David B. *See* N. Saravanan.



See Vincent W. Porto.

Fogel, Lawrence J. *See* Vincent W. Porto.

Forslund, Göran, "Toward Cooperative Advice-Giving Systems: A Case Study in Knowledge-Based Decision Support," No. 4, Aug., pp. 56–62.

Fowler III, Northrup, Stephen E. Cross, and Chris Owens, "Guest Editors' Introduction: The ARPA-Rome Knowledge-Based Planning and Scheduling Initiative," No. 1, Feb., pp. 4–9.

Funabashi, Motohisa, Akira Maeda, Yasuo Morooka, and Kiyomi Mori, "Fuzzy and Neural Hybrid Expert Systems: Synergetic AI," No. 4, Aug., pp. 32–41.

Garavaglia, Susan, "NeuralWorks Professionall/Plus," No. 2, Apr., pp. 63–64.

Gaspari, Mauro, Enrico Motta, and Arthur Stutt, "An Open Framework for Cooperative Problem Solving," No. 3, June, pp. 48–55.

Gasser, Les. *See* Carol Brown.

Goldman, Robert P., *Abductive Inference: Computation, Philosophy, Technology,* (John and Susan Josephson, eds., Cambridge University Press, New York, 1994), No. 3, June, pp. 67–71.

Goodenough, David G. *See* Stan Matwin.

Goodman, Erik D. *See* William F. Punch.

Grimson, W.E.L., "Medical Applications of Image Understanding," W.E.L. Grimson, No. 5, Oct., pp. 18–29.

Grupen, Roderic A., Manfred Huber, Jefferson A. Coelho, Jr., and Kamal Souccar, "Distributed Control Representation for Manipulation Tasks," No. 2, Apr., pp. 9–15.

Haapala, Christine. *See* Michael DeBellis.

Hamada, Kazuro, Toshimitsu Baba, Ken'ichi Sato, and Masanao Yufu, "Hybridizing a Genetic Algorithm with Rule-Based Reasoning for Production Planning," No. 5, Oct., pp. 60–67.

Hedberg, Sara Reese, "Intelligent Agents: The First Harvest of Softbots Looks Promising," No. 4, Aug., pp. 6–9.

Hine III, Butler P. *See* Carol R. Stoker.

Howard, Les M., and Donna J. D'Angelo, "The GA-P: A Genetic Algorithm and Genetic Programming Hybrid," No. 3., June, pp. 11–15.

Huber, Manfred. *See* Roderic A. Grupen.

Iwamasa, Mikito. *See* Sueda, Naomichi.

Jameson, Steve. *See* Kenneth R. Whitebread.

Jones, Donald H. and D. Navin-Chandra, "IndustryNet: A Model for Commerce on the World Wide Web," No. 5, Oct., pp. 54–59.

Jones, Eric K., and Aaron Roydhouse, "Intelligent Retrieval of Archived Meteorological Data," No. 6, Dec., pp. 50–58.

Josephson, John R., and Susan G. Josephson, "Letter to the Editors," No. 5, Oct., p. 77.

Josephson, Susan G. *See* John R. Josephson.

Kaiser, Michael, Volker Klingspor, José del R. Millán, Marco Accame, Frank Walner, and Rüdiger Dillmann, "UsingMachine Learning Techniques in Real-World Mobile Robots," No. 2, Apr., pp. 37–45.

Khaw, Yew-Tuan, and Hing-Yan Lee, "Privacy & Knowledge Discovery: A Response to O'Leary," No. 2, Apr., p. 58.

Klingspor, Volker. *See* Michael Kaiser.

Klinker, Georg, Marc Linster, and Gregg Yost, "Guest Editors' Introduction: Cooperative Systems for Workgroups," No. 3, June, pp. 39–40.

Klösgen, Willi, "KDD: Public and Private Concerns," No. 2, Apr., pp. 55–57.

Lee, Hing-Yan. *See* Yew-Tuan Khaw.

LeMoigne, Jacqueline J. *See* Nicholas M. Short.

Leung, Kwong Sak. *See* Man Leung Wong.

Ligon III, Walter B. *See* Nicholas M. Short.

Lin, Shyh-Ghang. *See* William F. Punch.

Linster, Marc. *See* Georg Klinker.

Liscano, Ramiro, Reda E. Fayek, Allan Manz, Elizabeth R. Stuck, and Jean-Yves Tigli, "Using a Blackboard to Integrate Multiple Activities and Achieve Strategic Reasoning for Mobile-Robot Navigation," No. 2, Apr., pp. 24–36.

Lu, Jian Ping. *See* Shu Ziang Zhao.

Macintosh, Ann, "A Profile of AIAI," No. 3, June, pp. 4–5, 78-79.

Maeda, Akira. *See* Motohisa Funabashi.

Mahling, Dirk E., Noel Craven, and W. Bruce Croft, "From Office Automation to Intelligent Workflow Systems," No. 3, June, pp. 41–47.

Manz, Allan. *See* Ramiro Liscano.

Mark, William. *See* Christopher Toomey.

Mason, Cindy L., and Stan Matwin, "Guest Editors' Introduction: Environmental Applications of AI," No. 6, Dec., pp. 12–13.

"An Intelligent Assistant for Nuclear Test Ban Treaty Verification," No. 6, Dec., pp. 42–49.

Matsumoto, Shunji. *See* Masaaki Takahasi.

Matwin, Stan, Daniel Charlebois, David G. Goodenough, and Pal Bhogal, "Machine Learning and Planning for Data Management in Forestry," No. 6, Dec., pp. 35–41.

See Cindy L. Mason.

Mikolajuk, Zbigniew, "IDRC Perspective on AI Technologies in Developing Countries," No. 6, Dec., pp. 81–82.

Millán, José del R. *See* Michael Kaiser.

Mizoguchi, Riichiro, and Hiroshi Motoda, "Guest Editors' Introduction: Expert Systems Research in Japan," No. 4, Aug., pp. 14–23.

Montgomery, James F., Andrew H. Fagg, and George A. Bekey, "The USC AFV-1: A Behavior-Based Entry in the 1994 International Aerial Robotics Competition," No. 2, Apr., pp. 16–23.

Mori, Kiyomi. *See* Motohisa Funabashi.

Morooka, Yasuo. *See* Motohisa Funabashi.

Motoda, Hiroshi. *See* Riichiro Mizoguchi.

Motta, Enrico. *See* Mauro Gaspari.

Mundy, Joseph, "The Image Understanding Environment Program," No. 6, Dec., pp. 64–73.

Navin-Chandra, D. *See* Donald H. Jones.

Netanyahu, Nathan S. *See* Nicholas M. Short.

O'Leary, Daniel E., "On the History of AI Applications I: *IEEE Expert*—The First Nine Years," No. 1, Feb., pp. 57–60.

"On the History of AI Applications II: IEEE Conference on AI Applications," No. 1, Feb., pp. 61–65.

"Some Privacy Issues in Knowledge Discovery: The OECD Personal Privacy Guidelines," No. 2, Apr., pp. 48–52.

See Carol Brown.

Oono, Jun-ichi. *See* Masaaki Takahasi.

Owens, Chris. *See* Northrup Fowler III.

Oxman, Steven, "Level5 Quest," No. 5, Oct., pp. 80–82.

"Level4 Object Professional 3.6," No. 1, Feb., pp. 73–74.

Piatesky-Shapiro, Gregory, "Knowledge Discovery in Personal Data vs. Privacy: A Mini-Symposium," No. 2, Apr., pp. 46–47.

Porto, Vincent W., David B. Fogel, and Lawrence J. Fogel, "Alternative Neural Network Training Methods," No. 3, June, pp. 16–22.

Price, Dick, "Climbing the Walls," No. 2, Apr., pp. 67–70.

"Starlight, Star Bright: Data-Mining the Cosmos," No. 4, Aug., pp. 10–13.

Punch, William F., Ronald C. Averill, Erik D. Goodman, Shyh-Ghang Lin, and Ying Ding, "Using Genetic Algorithms

to Design Laminated Composite Structures," No. 1, Feb., pp. 42–49.
Ram, Sudha, and Venkataraman Ramesh,"A Blackboard-Based Cooperative System for Schema Integration," No. 3, June, pp. 56–62.
Ramesh, Venkataraman. *See* Sudha Ram.
Rizki, Mateen M. *See* Louis A. Tamburino.
Roydhouse, Aaron. *See* Eric K. Jones.
Roman, Harry T., "AI's Show Stoppers," No. 3, June, p. 3.
Ronald C. Averill, Ronald C. *See* William F. Punch.
Saitoh, Kazuyuki. *See* Masaaki Takahasi.
Sangster, Alan. *See* Carol Brown.
Saravanan, N., and David B. Fogel, "Evolving Neural Control Systems," No. 3, June, pp. 23–27.
Sato, Ken'ichi. *See* Kazuro Hamada.
Schantz, Richard. *See* Mark Burstein.
Sears, Jay Allen, "Guest Editor's Introduction," No. 4, Aug., pp. 42–43.
Short, Nicholas M., Robert F. Cromp, William J. Campbell, James C. Tilton, Jacqueline J. LeMoigne, Gyorgy Fekete, Nathan S. Netanyahu, Walter B. Ligon III, and Keith Wichmann, "Mission to Planet Earth: AI Views the World," No. 6, Dec., pp. 24–34.
Smith, Stephen, *See* Mark Burstein.
Souccar, Kamal. *See* Roderic A. Grupen.
Stillman, Jonathan, and Piero Bonissone, "Developing New Technologies for the ARPA-Rome Planning Initiative," No. 1, Feb., pp. 10–16.
Stoker, Carol R., Donald R. Barch, Butler P. Hine III, and James Barry, "Undersea Exploration in Antarctica Using a Robotic Submarine with Telepresence User Interface," No. 6, Dec., pp. 14–23.
Stuck, Elizabeth R. *See* Ramiro Liscano.
Stutt, Arthur. *See* Mauro Gaspari.
Sueda, Naomichi, and Mikito Iwamasa, "A Pilot System for Plant Control Using Model-Based Reasoning," No. 4, Aug., pp. 24–31.
Tackett, Walter Alden, "Mining the Genetic Program," No. 3, June pp. 28–38.
Takahashi, Masaaki, Jun-ichi Oono, Kazuyuki Saitoh, and Shunji Matsumoto,"Reusing Makes It Easier: Manufacturing Process Design by CBR with KnowledgeWare," No. 6, Dec., pp. 74–80.
Tamburino, Louis A., Mateen M. Rizki, and Michael A. Zmuda, "Generating Pattern-Recognition Systems Using Evolutionary Learning," No. 4, Aug., pp. 63–71.
Tigli, Jean-Yves. *See* Ramiro Liscano.
Tilton, James C. *See* Nicholas M. Short.
Toomey, Christopher, and William Mark, "Satellite Image Dissemination via Software Agents," No. 5, Oct., pp. 44–50.
Vanwelkenhuysen, Johan, "Using DRE to Augment Generic Conceptual Design," No. 1, Feb., pp. 50–56.
Walner, Frank. *See* Michael Kaiser.
Watkins, Fred A., "False Controversy: Fuzzy and Non-Fuzzy Faux Pas," Fred A. Watkins, No. 2, Apr., pp. 4–5.
Weld, Daniel S. *See* Oren Etzioni.
Whitebread, Kenneth R., and Steve Jameson, "Information Discovery in High-Volume, Frequently Changing Data," No. 5, Oct., pp. 51–53.
Wichmann, Keith. *See* Nicholas M. Short.
Wolff, Lawrence B., "Applications of Polarization Camera Technology," No. 5, Oct., pp. 30–38.
Wong, Man Leung, and Kwong Sak Leung, "Inducing Logic Programs with Genetic Algorithms: The Genetic Logic Programming System," No. 5, Oct., pp. 68–76.
Yost, Gregg. *See* Georg Klinker.
Yufu, Masanao. *See* Kazuro Hamada.
Ziarko, Wojciech, "Response to O'Leary," No. 2, Apr., p. 59.
Zmuda, Michael A. *See* Louis A. Tamburino.
Zue, Victor W., "Navigating the Information Superhighway Using Spoken Language Interfaces," No. 5, Oct., pp. 39–43.0

Departments

Book Reviews

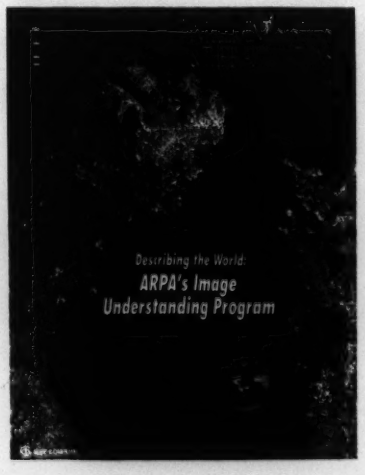
Abductive Inference: Computation, Philosophy, Technology, (John and Susan Josephson, eds., Cambridge University Press, New York, 1994), Robert P. Goldman, No. 3, June, pp. 67–71.
Intelligent Scheduling, (Monte Zweben and Mark S. Fox, eds., Morgan Kaufmann, San Francisco, 1994), Thomas Dean, No. 1, Feb., pp. 76–77.
The Uncertain Reasoner's Companion: A Mathematical Perspective, (J.B. Paris, Cambridge University Press, New York), Ernest Davis, No. 5, Oct., pp. 78–79.

Conferences

"Using Technology to Enable Collaboration: Wet Ice '95," John R. Callahan, No. 4, Aug., p. 75

Editorial

"7,110?" Stephen E. Cross, No. 2, Apr., pp. 2–3.
"Board's Focus Enhanced," Stephen E.



Cross, No. 3, June, p. 2.
"My Vision for *IEEE Expert*, Stephen E. Cross, No. 1, Feb., pp. 2–3.
"New Developments Continue," Stephen E. Cross, No. 4, Aug., pp. 2–5
"The Rest of Our Name: Intelligent Systems and Their Applications," Stephen E. Cross, No. 6, Dec., pp. 2–3.
"We Need Your Expert Opinion," Stephen E. Cross, No. 5, Oct., pp. 2–4.

Executive Insight

"Intelligent Agents: The First Harvest of Softbots Looks Promising," Sara Reese Hedberg, No. 4, Aug., pp. 6–9.

Focus

"Climbing the Walls," Dick Price, No. 2, Apr., pp. 67–70.
"Lunar Rover Initiative," John Charles, No. 5, Dec., pp. 5–6.
"US Lead Narrowing in AI," John Charles, No. 1, Feb., pp. 70–72.

Letter to the Editor

"AI's Show Stoppers," Harry T. Roman, No. 3, June, p. 3.
"False Controversy: Fuzzy and Non-Fuzzy Faux Pas," Fred A. Watkins, No. 2, Apr., pp. 4–5.
"Letter to the Editors," John R. and Susan G. Josephson, No. 5, Oct., p. 77.

New Products

"Agent and Expert Optimize Alpha," No. 2, Apr., p. 66.
"Agents Expedite Remote Client/Server Access," No. 3, June, p. 66.
"C++ Toolkit Update," No. 1, Feb., p. 75.
"CentraLane's IT," No. 4, Aug., p. 74.
"Dragon Speaks Spanish," No. 2, Apr., p. 64.
"EZ*IR Operates in the Infrared," No. 5, Oct., p. 84.
"Forté Release 2," No. 4, Aug., p. 74.
"Fuzzy System Builder," No. 1, Feb., p. 75.
"FuzzyStudio Develops VLSI Processor," No. 3, June, p. 65.
"GeneHunter's Weapons are Genetic Algorithms," No. 2, Apr., p. 66.
"Get a Load off this Robot," No. 2, Apr., p. 66.
"Invasion of the Trilobots," No. 2, Apr., p. 65.
"Knowledge-Paks Support Help Desks," No. 3, June, p. 66.
"L System Uses Common Lisp to Develop Real-Time Embedded Systems," No. 5, Oct., p. 83.
"Logic Server Supports Delphi and Windows '95," No. 5, Oct., p. 84.
"Mac Support Added to New ACMSxp Version," No. 1, Feb., p. 74.
"Matlab Gets Fuzzy," No. 2, Apr., p. 65.
"NeuFrame Manipulates Intelligent Objects," No. 3, June, pp. 64–65.
"Neural Net Library for Extend," No. 1, Feb., p. 75.
"Neural Network Development Tool," No. 1, Feb., p. 75.
"Neuron Data's New Distributed Communications Component," No. 4, Aug., p. 73.
"OPS/R2 Expert System Tool," No. 4, Aug., p. 73.
"PowerBroker with Cobra Manages Those Pesky Object," No. 5, Oct., p. 82.
"The Grouper Enhances Image Processing," No. 5, Oct., p. 83.
"The G6G Directory of Intelligent Software: Volume VI," No. 4, Aug., p. 74.
"This Hermes Doesn't Have Wings on its Feet," No. 5, Oct., p. 84.
"XpertRule Upgrade," No. 1, Feb., p. 75.
"You, Too, Can Create a Neural Network," No. 2, Apr., p. 65.

News

"AI Helps Reengineer Business Processes," No. 2, Apr., p. 61.
"CMSR Zeroes in on Cancer," No. 5, Oct., p. 85.
"Cybernaut Robots," No. 3, June, p. 73.
"Eidos Never Forgets a Face," No. 4, Aug., pp. 69–70.
"Go Ask Snowy," No. 5, Oct., p. 85.
"1994 Loebner Prize Awarded," Garrett Collins, No. 1, Feb., p. 67.
"Portable Expert Systems in the Field," No. 4, Aug., pp. 71.
"Robot Plays Chicken," No. 2, Apr., p. 61..
"Satan Is Intelligent," No. 3, June, p. 73.
"Smart Pulp," No. 3, June, p. 74.
"Stanford, Berlin, and Texas Fly Autonomously at Aerial Robotics Competition," No. 4, Aug., pp. 70–71.
"The Turing Award Winners' Contribution to Computer Science: Edward A. Feigenbaum and Raj Reddy," No. 1, Feb., pp. 68–69.
"The Ultimate Cruise Control," No. 3, June, p. 74.

Product Review

"Level4 Object Professional 3.6," Steven Oxman, No. 1, Feb., pp. 73–74.
"Level5 Quest," Steve Oxman, No. 5, Oct., pp. 80–82.
"NeuralWorks Professionalll/Plus," Susan Garavaglia, No. 2, Apr., pp. 63–64.
"Predict by NeuralWare: An Automated Tool for Building Neural Networks," Luigi Canali, No. 3, June, pp. 63–64

View

"Interview with Edward A. Feigenbaum," Stephen E. Cross, No. 6, Dec., pp. 8–11.

World Impact

"A Profile of AIAI," Ann Macintosh, No. 3, June, pp. 4–5, 78-79.
"AI Developments in China," Cungen Cao, No. 5, Oct., pp. 6–7
"IDRC Perspective on AI Technologies in Developing Countries," Zbigniew Mikolajuk, No. 6, Dec., pp. 6–9
"Starlight, Star Bright: Data-Mining the Cosmos," Dick Price, No. 4, Aug., pp. 10–13.